

In the Claims:

Kindly amend the claims as follows:

1. (Currently amended) Grinding apparatus (1) comprising an item that includes edges, roundings, and burrs (20), including a support arrangement (4) for a number of grinding heads (6) that each includes a grinding element (2) and a grinding motor (3) driving an associated grinding element (2), wherein the grinding elements are connected to the grinding motors with a movable shaft, wherein a ball/bowl joint is connected to and displaces the movable shaft connected to the grinding head configured to contact the surface of an item with a non-uniform thickness, wherein the support arrangement (4) includes a supporting suspension coupled to an endless ~~conveying means~~ conveyor (9) for the grinding heads (6), the ~~conveying means~~ conveyor (9) being movable in an annular course along the supporting suspension with at least one long side perpendicular to an underlying conveyor, by at least one moving motor (5) for establishing an epicyclic movement of the grinding elements (2) across the item that includes edges, roundings, and burrs (20) during operation, wherein a first grinding apparatus is arranged so that the grinding elements (2) are in contact with a surface of an item which is moved across a conveyor or a roller table, and wherein a second grinding apparatus arranged in the apparatus frame is in contact with an underside of the item while moved along the conveyor or from roller table to roller table.

2. (Currently amended) Grinding apparatus (1) according to claim 1, characterised in that the ~~conveying means~~ conveyor (9) is constituted by a number of drive chains or belts which are adapted for engaging with a drive wheel (11) driven by the moving motors (5).

3. (Currently amended) Grinding apparatus (1) according to claim 1, characterised in that the support arrangement includes an apparatus frame (7) in which the support arrangement (4)

is adjustable in height approximately parallel to the plane of the work surface arranged by means of a number of displacing force providers (12).

4. (Cancelled) Without prejudice.

5. (Currently amended) Grinding apparatus according to claim 1, wherein first and second rows of the grinding elements are arranged to move in directions perpendicular to the direction of motion of an object on the underlying conveyor, wherein the object's surface opposite the underlying conveyor is in contact with the grinding elements, wherein one or more grinding elements rotate in a different direction than one or more other grinding elements, and wherein the second row of grinding elements rotate in a direction opposite to the first row of grinding elements.

6. (Currently amended) Grinding apparatus comprising a work-piece including edges, roundings, and burrs, a support structure including a supporting suspension, plural grinding heads suspended from the supporting suspension, each grinding head comprising a grinding element and a grinding motor driving an associated grinding element, an endless conveyor coupled to the supporting suspension in a plane perpendicular to a plane of the support structure, at least one moving motor coupled to the endless conveyor for moving the endless conveyor annularly along the supporting suspension, wherein the grinding elements are connected to the grinding motors with a movable shaft, wherein a ball/bowl joint is connected to and displaces the movable shaft connected to the grinding head configured to contact the surface of an item with a non-uniform thickness, the plural grinding heads being coupled to the endless conveyor wherein the plural grinding heads are movable transverse of a direction of movement of the work-piece thereby moving the grinding elements epicyclically across the work-piece including the edges, roundings, and burrs during grinding operation, wherein a first grinding apparatus is arranged so that the grinding elements (2) are in contact with a surface of an item which is moved across a conveyor or a roller table, and

wherein a second grinding apparatus arranged in the apparatus frame is in contact with an underside of the item while moved along the conveyor or from roller table to roller table.

7. (Previously presented) The apparatus of claim 6, wherein the endless conveyor includes at least one long side perpendicular to a plane of movement to an underlying conveyor conveying the work-piece.

8. (Previously presented) The apparatus of claim 6, wherein the endless conveyor comprises one or more drivers.

9. (Previously presented) The apparatus of claim 8, wherein the one or more drivers are selected from the group consisting of one or more drive chains, drive belts, wires, wide bands, and combinations thereof.

10. (Previously presented) The apparatus of claim 8, wherein the support structure further comprises at least one drive wheel driven by the at least one moving motor, and wherein the one or more drivers engage the drive wheel.

11. (Currently amended) The apparatus of claim 6, further comprising a support frame comprising one or more displaceable force elements coupling the support frame with the support structure for vertically adjusting the support structure and the supporting suspension height approximately parallel to the plane of the work surface.

12. (Cancelled) Without prejudice.

13. (Previously presented) The apparatus of claim 6, wherein each of the plural grinding elements are movable in a direction perpendicular to a direction of movement of the work-piece.

14. (Currently amended) The apparatus of claim 6, wherein one or more grinding elements rotate in a different direction than one or more other grinding elements, and wherein an object's surface opposite the underlying conveyor is in contact with the grinding element.

15. (Currently amended) The apparatus of claim 6, wherein the plural grinding elements comprise a first row and a second row of grinding elements, and wherein an object's surface opposite the underlying conveyor is in contact with the grinding element.

16. (Previously presented) The apparatus of claim 15, wherein the second row of grinding elements have a direction of rotation opposite to a direction of rotation of the first row of grinding elements.

17. (Currently amended) A method for processing comprising providing a work-piece including edges, roundings, and burrs, providing a support system, suspending a support structure from the support system, suspending plural grinding heads from the support structure, providing each grinding head with a grinding element and an associated grinding motor, driving the grinding element with the grinding motor, connecting grinding elements to the grinding motors using movable shaft, wherein a displacing ball/bowl joint connecting to and displacing the movable shaft connecting the grinding head is contacting the surface of an item with a non-uniform thickness, coupling an endless conveyor to the support structure in a plane perpendicular to a plane of the support structure, moving the endless conveyor annularly along the support structure with at least one moving motor coupled to the endless conveyor, coupling the plural grinding heads with the endless conveyor, moving the plural grinding heads transverse of a direction of movement of the work-piece, moving the grinding elements epicyclically across the work-piece including the edges, roundings, and burrs during grinding operation, and processing any shape or form of the work-piece.

18. (Currently amended) The method of claim 17, further comprising vertically adjusting the support structure on a support frame by coupling with one or more displaceable force elements height approximately parallel to the plane of the work surface.

19. (Currently amended) The method of claim 17, further comprising moving the plural grinding elements perpendicular to a direction of movement of the work-piece, wherein the object's surface opposite the underlying conveyor is in contact with the grinding element, and rotatably moving one or other grinding elements in a different direction than one or more other grinding elements.

20. (Previously presented) The method of claim 17, further comprising moving the plural grinding elements as a first row and a second row of grinding elements, and moving the first and the second rows in opposite directions of rotations.